

The Honorable Julius Genachowski
Chairman
U.S. Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554

July 12, 2011

Maynard C. Herting Jr.
UAI
4200 James Ray Drive
Grand Forks ND 58203
701-738-4870

Subject: **IB Docket Number 11-109**. FCC File No. SAT-Mod-20101118-00239, LightSquared
Subsidiary LLC (LightSquared) Request for Modification of its Authority for an Ancillary Terrestrial
Component

Dear Chairman Genachowski:

Sir, My name is Maynard Herting, Executive Director of Unmanned Applications Institute International. Our organization is a non-profit that is committed to developing the commercialization of the UAS industry. Our core objective is to ensure the safe and effective operations of UAS in the national airspace. We are deeply concerned with this initiative as it is represented. The incursion of bandwidth that might hamper the safe and effective operations of GPS signals would greatly impact the development of the UAS industry. I have included the following information to ensure that you understand that we are supporting AUVSI's concerns in this serious manner

As a member of the unmanned systems community, I am deeply concerned about a current waiver request from LightSquared to operate high-powered terrestrial transmitters on a radio frequency adjacent to the weak satellite-based Global Positioning System (GPS). Independent studies show that LightSquared's terrestrial operations could completely knockout GPS receivers for miles around each transmitter.

Before the Federal Communications Commission grants LightSquared waiver to build tens of thousands of high-powered terrestrial transmitters and use a radio frequency adjacent to GPS, more research and studies must be done.

As you know, all around the world, unmanned systems (air, ground, and maritime) rely on accurate, dependable GPS signals. The lack of a reliable GPS signal poses a serious threat to our public safety and national defense, and the potential expense of retrofitting or replacing affected GPS receivers would truly be an undue burden.

I ask that you take careful consideration of the potential harm LightSquared's proposed plan would have on the emerging field of unmanned systems, not to mention all other users of GPS. Thank you for the opportunity to submit comments for the official record.

Sincerely,
Maynard